



CURA 85 CON Sequence Listing 08_30_2004
SEQUENCE LISTING

<110> Prayaga, Sudhirdas K
Taupier Jr, Raymond J
Bandaru, Raj

<120> NOVEL POLYPEPTIDES AND POLYNUCLEOTIDES ENCODING SAME

<130> Cura 85 CON

<140> 10/691,165

<141> 2003-10-21

<150> 09/689,486

<151> 2000-10-12

<150> 60/159,805

<151> 1999-10-15

<150> 60/159,992

<151> 1999-10-18

<150> 60/160,952

<151> 1999-10-22

<160> 64

<170> PatentIn Ver. 2.1

<210> 1

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (61)..(234)

<400> 1

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atg gca gac aaa cca gac ata ggg gaa atc gcc agc ttc aat aag gcc 108
Met Ala Asp Lys Pro Asp Ile Gly Glu Ile Ala Ser Phe Asn Lys Ala
  1          5          10          15

aag ctg aag aaa aca gag atg cag gag aac acc ctg ctg acc aaa gag 156
Lys Leu Lys Lys Thr Glu Met Gln Glu Asn Thr Leu Leu Thr Lys Glu
          20          25          30

gcc att gag cag gag aag cgg gtg aaa ttt cct aag agc ctg gag gat 204
Ala Ile Glu Gln Glu Lys Arg Val Lys Phe Pro Lys Ser Leu Glu Asp
          35          40          45

tcc cta ccc ctg tca tct tcg aga ccc cag tagtaatgtg gaggaagaat 254
Ser Leu Pro Leu Ser Ser Ser Arg Pro Gln
  50          55

caccacaaga tggacacaag ccacaaactg tgacgtgaac ctgggcactc cgtgctgatg 314
ccaccagcct gaggggtccct atgggtccaa tcagactgcc aaattctctg gtttgccctg 374
ggatattata gaaaattatt tgcgtgaata atgaaaacac agctcatggc aaaaaa 430
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<210> 2
 <211> 58
 <212> PRT
 <213> Homo sapiens

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 Lys Leu Lys Lys Thr Glu Met Gln Glu Asn Thr Leu Leu Thr Lys Glu
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 Ala Ile Glu Gln Glu Lys Arg Val Lys Phe Pro Lys Ser Leu Glu Asp
 35 40 45
 Ser Leu Pro Leu Ser Ser Ser Arg Pro Gln
 50 55

<210> 3
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 3
 Lys Leu Lys Lys Thr Glu Asn Thr Gln Glu Glu Lys Asn
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<210> 4
 <211> 3018
 <212> DNA
 <213> Homo sapiens

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 cacggggact ggggctggct cacgtatccg gctcatgggt gggactccat caacgaggtg 180
 gacgagtcct tccagcccat ccacacgtac caggtttgca acgtcatgag cccaaccag 240
 aacaactggc tgcgcacgag ctgggtcccc cgagacggcg cccggcgcg tctatgctgag 300
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 acctcaacc tctactacct ggagtcggag cgcgacctgg gggccagcac acaagaaagc 420
 cagttcctca aaatcgacac cattgcggcc gacgagagct tcacaggtgc cgaccttgg 480
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 ccgtcctcag cctgcacccg gccaccctcg gcaccagtga acctgatctc cagtgtgaat 1020
 gggacatcag tgactctgga gtgggcccc cccctggacc cagggtggcg cagtgcacac 1080
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 tcccaggtgg tggatgatcc tcaagagcgg gcggggcaga ccagcgtctc gctgctgtgg 1380
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 gacaaggaga tgcagagcta ctccaccctc aaggccgtca ccaccagagc caccgtctcc 1500
 ggcctcaagc cgggcacccg ctacgtgttc cagggtccgag cccgcacctc agcaggctgt 1560

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ctcatctgca agaagaggca ctgtggctac agcaaggcct tccaggactc ggacgaggag 1740
aagatgcact atcagaatgg acaggcacc ccacctgtct tcctgcctct gcatcacccc 1800
ccgggaaagc tcccagagcc ccagttctat gcggaacccc acacctacga ggagccaggc 1860
cgggaggggc gcagtttcac tcgggagatc gaggcctcta ggatccacat cgagaaaatc 1920
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atgggctgcc cccacgcctt gcaccagctc atgctcgact gttggcaca ggaccgggag 2640
cagcggcctc gcttctccca gattgtcagt gtcctcgatg cgctcatccg cagccctgag 2700
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tttgacctcc gagggggcag cggtggcggt gggggcctca ccgtggggga ctggctggag 2820
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atggtgctac gcatgaacgc ccaggacgtg cgcgccttgg gcatcacctt catgggccac 2940
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<210> 5

<211> 992

<212> PRT

<213> Homo sapiens

<400> 5

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      20              25              30
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      35              40              45
Tyr Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe
      50              55              60
Gln Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln
      65              70              75              80
Asn Asn Trp Leu Arg Thr Ser Trp Val Pro Arg Asp Gly Ala Arg Arg
      85              90              95
Val Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Met Pro
      100              105              110
Gly Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Leu Glu
      115              120              125
Ser Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys
      130              135              140
Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly
      145              150              155              160

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Val Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Ser Val Gly Pro Leu
165 170 175
Ser Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu
180 185 190
Ala Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val
195 200 205
Arg Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser
210 215 220
Ser Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg
225 230 235 240
Asp Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly Glu Trp Leu Val Pro
245 250 255
Ile Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu Glu Arg Arg Asp Ala
260 265 270
Cys Val Ala Cys Glu Leu Gly Phe Tyr Lys Ser Ala Pro Gly Asp Gln
275 280 285
Leu Cys Ala Arg Cys Pro Pro His Ser His Ser Ala Ala Pro Ala Ala
290 295 300
Gln Ala Cys His Cys Asp Leu Ser Tyr Tyr Arg Ala Ala Leu Asp Pro
305 310 315 320
Pro Ser Ser Ala Cys Thr Arg Pro Pro Ser Ala Pro Val Asn Leu Ile
325 330 335
Ser Ser Val Asn Gly Thr Ser Val Thr Leu Glu Trp Ala Pro Pro Leu
340 345 350
Asp Pro Gly Gly Arg Ser Asp Ile Thr Tyr Asn Ala Val Cys Arg Arg
355 360 365
Cys Pro Trp Ala Leu Ser Arg Cys Glu Ala Cys Gly Ser Gly Thr Arg
370 375 380
Phe Val Pro Gln Gln Thr Ser Leu Val Gln Ala Ser Leu Leu Val Ala
385 390 395 400
Asn Leu Leu Ala His Met Asn Tyr Ser Phe Trp Ile Glu Ala Val Asn
405 410 415
Gly Val Ser Asp Leu Ser Pro Glu Pro Arg Arg Ala Ala Val Val Asn
420 425 430
Ile Thr Thr Asn Gln Ala Ala Pro Ser Gln Val Val Val Ile Arg Gln
435 440 445
Glu Arg Ala Gly Gln Thr Ser Val Ser Leu Leu Trp Gln Glu Pro Glu
450 455 460
Gln Pro Asn Gly Ile Ile Leu Glu Tyr Glu Ile Lys Tyr Tyr Glu Lys
465 470 475 480
Asp Lys Glu Met Gln Ser Tyr Ser Thr Leu Lys Ala Val Thr Thr Arg
485 490 495

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Ala Thr Val Ser Gly Leu Lys Pro Gly Thr Arg Tyr Val Phe Gln Val
 500 505 510
 Arg Ala Arg Thr Ser Ala Gly Cys Gly Arg Phe Ser Gln Ala Met Glu
 515 520 525
 Val Glu Thr Gly Lys Pro Arg Pro Arg Tyr Asp Thr Arg Thr Ile Val
 530 535 540
 Trp Ile Cys Leu Thr Leu Ile Thr Gly Leu Val Val Leu Leu Leu Leu
 545 550 555 560
 Leu Ile Cys Lys Lys Arg His Cys Gly Tyr Ser Lys Ala Phe Gln Asp
 565 570 575
 Ser Asp Glu Glu Lys Met His Tyr Gln Asn Gly Gln Ala Pro Pro Pro
 580 585 590
 Val Phe Leu Pro Leu His His Pro Pro Gly Lys Leu Pro Glu Pro Gln
 595 600 605
 Phe Tyr Ala Glu Pro His Thr Tyr Glu Glu Pro Gly Arg Ala Gly Arg
 610 615 620
 Ser Phe Thr Arg Glu Ile Glu Ala Ser Arg Ile His Ile Glu Lys Ile
 625 630 635 640
 Ile Gly Ser Gly Asp Ser Gly Glu Val Cys Tyr Gly Arg Leu Arg Val
 645 650 655
 Pro Gly Gln Arg Asp Val Pro Val Ala Ile Lys Ala Leu Lys Ala Gly
 660 665 670
 Tyr Thr Glu Arg Gln Arg Arg Asp Phe Leu Ser Glu Ala Ser Ile Met
 675 680 685
 Gly Gln Phe Asp His Pro Asn Ile Ile Arg Leu Glu Gly Val Val Thr
 690 695 700
 Arg Gly Arg Leu Ala Met Ile Val Thr Glu Tyr Met Glu Asn Gly Ser
 705 710 715 720
 Leu Asp Thr Phe Leu Arg Thr His Asp Gly Gln Phe Thr Ile Met Gln
 725 730 735
 Leu Val Gly Met Leu Arg Gly Val Gly Ala Gly Met Arg Tyr Leu Ser
 740 745 750
 Asp Leu Gly Tyr Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val
 755 760 765
 Asp Ser Asn Leu Val Cys Lys Val Ser Asp Phe Gly Leu Ser Arg Val
 770 775 780
 Leu Glu Asp Asp Pro Asp Ala Ala Tyr Thr Thr Thr Gly Gly Lys Ile
 785 790 795 800
 Pro Ile Arg Trp Thr Ala Pro Glu Ala Ile Ala Phe Arg Thr Phe Ser
 805 810 815
 Ser Ala Ser Asp Val Trp Ser Phe Gly Val Val Met Trp Glu Val Leu
 820 825 830

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Ala Tyr Gly Glu Arg Pro Tyr Trp Asn Met Thr Asn Arg Asp Val Ile
835 840 845

Ser Ser Val Glu Glu Gly Tyr Arg Leu Pro Ala Pro Met Gly Cys Pro
850 855 860

His Ala Leu His Gln Leu Met Leu Asp Cys Trp His Lys Asp Arg Ala
865 870 875 880

Gln Arg Pro Arg Phe Ser Gln Ile Val Ser Val Leu Asp Ala Leu Ile
885 890 895

Arg Ser Pro Glu Ser Leu Arg Ala Thr Ala Thr Val Ser Arg Cys Pro
900 905 910

Pro Pro Ala Phe Val Arg Ser Cys Phe Asp Leu Arg Gly Gly Ser Gly
915 920 925

Gly Gly Gly Gly Leu Thr Val Gly Asp Trp Leu Asp Ser Ile Arg Met
930 935 940

Gly Arg Tyr Arg Asp His Phe Ala Ala Gly Gly Tyr Ser Ser Leu Gly
945 950 955 960

Met Val Leu Arg Met Asn Ala Gln Asp Val Arg Ala Leu Gly Ile Thr
965 970 975

Leu Met Gly His Gln Lys Lys Ile Leu Gly Ser Ile Gln Thr Met Arg
980 985 990

<210> 6
<211> 2025
<212> DNA
<213> Homo sapiens

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<210> 7

<211> 674

<212> PRT

<213> Homo sapiens

<400> 7

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          20          25          30
Asp Trp Leu Phe Leu Cys Tyr Gly Leu Ile Ala Phe Leu Thr Glu Val
          35          40          45
Ile Asp Ser Thr Thr Cys Pro Ser Val Cys Arg Cys Asp Asn Gly Phe
          50          55          60
Ile Tyr Cys Asn Asp Arg Gly Leu Thr Ser Ile Pro Ala Asp Ile Pro
          65          70          75          80
Asp Asp Ala Thr Thr Leu Tyr Leu Gln Asn Asn Gln Ile Asn Asn Ala
          85          90          95
Gly Ile Pro Gln Asp Leu Lys Thr Lys Val Asn Val Gln Val Ile Tyr
          100          105          110
Leu Tyr Glu Asn Asp Leu Asp Glu Phe Pro Ile Asn Leu Pro Arg Ser
          115          120          125
Leu Arg Glu Leu His Leu Gln Asp Asn Asn Val Arg Thr Ile Ala Arg
          130          135          140
Asp Ser Leu Ala Arg Ile Pro Leu Leu Glu Lys Leu His Leu Asp Asp
          145          150          155          160
Asn Ser Val Ser Thr Val Ser Ile Glu Glu Asp Ala Phe Ala Asp Ser
          165          170          175
Lys Gln Leu Lys Leu Leu Phe Leu Ser Arg Asn His Leu Ser Ser Ile
          180          185          190
Pro Ser Gly Leu Pro His Thr Leu Glu Glu Leu Arg Leu Asp Asp Asn
          195          200          205
Arg Ile Ser Thr Ile Pro Leu His Ala Phe Lys Gly Leu Asn Ser Leu
          210          215          220
Arg Arg Leu Val Leu Asp Gly Asn Leu Leu Ala Asn Gln Arg Ile Ala
          225          230          235          240

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Asp	Asp	Thr	Phe	Ser 245	Arg	Leu	Gln	Asn	Leu 250	Thr	Glu	Leu	Ser	Leu 255	Val
Arg	Asn	Ser	Leu 260	Ala	Ala	Pro	Pro	Leu 265	Asn	Leu	Pro	Ser	Ala 270	His	Leu
Gln	Lys	Leu 275	Tyr	Leu	Gln	Asp	Asn 280	Ala	Ile	Ser	His	Ile 285	Pro	Tyr	Asn
Thr	Leu 290	Ala	Lys	Met	Arg	Glu 295	Leu	Glu	Arg	Leu	Asp 300	Leu	Ser	Asn	Asn
Asn 305	Leu	Thr	Thr	Leu	Pro 310	Arg	Gly	Leu	Phe	Asp 315	Asp	Leu	Gly	Asn	Leu 320
Ala	Gln	Leu	Leu	Leu 325	Arg	Asn	Asn	Pro	Trp 330	Phe	Cys	Gly	Cys	Asn 335	Leu
Met	Trp	Leu	Arg 340	Asp	Trp	Val	Lys	Ala 345	Arg	Ala	Ala	Val	Val 350	Asn	Val
Arg	Gly	Leu 355	Met	Cys	Gln	Gly	Pro 360	Glu	Lys	Val	Arg	Gly 365	Met	Ala	Ile
Lys	Asp 370	Ile	Thr	Ser	Glu	Met 375	Asp	Glu	Cys	Phe	Glu 380	Thr	Gly	Pro	Gln
Gly 385	Gly	Val	Ala	Asn	Ala 390	Ala	Ala	Lys	Thr	Thr 395	Ala	Ser	Asn	His	Ala 400
Ser	Ala	Thr	Thr	Pro 405	Gln	Gly	Ser	Leu	Phe 410	Thr	Leu	Lys	Ala	Lys 415	Arg
Pro	Gly	Leu	Arg 420	Leu	Pro	Asp	Ser	Asn 425	Ile	Asp	Tyr	Pro	Met 430	Ala	Thr
Gly	Asp	Gly 435	Ala	Lys	Thr	Leu	Ala 440	Ile	His	Val	Lys	Ala 445	Leu	Thr	Ala
Asp	Ser 450	Ile	Arg	Ile	Thr	Trp 455	Lys	Ala	Thr	Leu	Pro 460	Ala	Ser	Ser	Phe
Arg 465	Leu	Ser	Trp	Leu	Arg 470	Leu	Gly	His	Ser	Pro 475	Ala	Val	Gly	Ser	Ile 480
Thr	Glu	Thr	Leu	Val 485	Gln	Gly	Asp	Lys	Thr 490	Glu	Tyr	Leu	Leu	Thr 495	Ala
Leu	Glu	Pro	Lys 500	Ser	Thr	Tyr	Ile	Ile 505	Cys	Met	Val	Thr	Met 510	Glu	Thr
Ser	Asn	Ala 515	Tyr	Val	Ala	Asp	Glu 520	Thr	Pro	Val	Cys	Ala 525	Lys	Ala	Glu
Thr	Ala 530	Asp	Ser	Tyr	Gly	Pro 535	Thr	Thr	Thr	Leu	Asn 540	Gln	Glu	Gln	Asn
Ala 545	Gly	Pro	Met	Ala	Ser 550	Leu	Pro	Leu	Ala	Gly 555	Ile	Ile	Gly	Gly	Ala 560
Val	Ala	Leu	Val	Phe 565	Leu	Phe	Leu	Val	Leu 570	Gly	Ala	Ile	Cys	Trp 575	Tyr

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Val His Gln Ala Gly Glu Leu Leu Thr Arg Glu Arg Ala Tyr Asn Arg
580 585 590
Gly Ser Arg Lys Lys Asp Asp Tyr Met Glu Ser Gly Thr Lys Lys Asp
595 600 605
Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln Met Leu Pro Ile
610 615 620
Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val Val His Thr Ile Phe Pro
625 630 635 640
Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr His Thr Ile Gly Tyr Gly
645 650 655
Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile Pro Asp Ile Asp Tyr Ser
660 665 670
Tyr Thr

<210> 8
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Ag190 Forward
PCR Primer Sequence

<400> 8
tggaggaaga atcaccacaa ga 22

<210> 9
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Ag190 Probe
PCR Primer Sequence

<400> 9
caagccacaa actgtgacgt gaacctg 27

<210> 10
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Ag190 Reverse
PCR Primer Sequence

<400> 10
gtggcatcag cacggagtg 19

<210> 11

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<211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Ag087 Forward
 PCR Primer Sequence

 <400> 11
 cgcagtttca ctcgggagat 20

 <210> 12
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Ag087 Probe
 PCR Primer Sequence

 <400> 12
 cctctaggat ccacatcgag aaaatcatcg g 31

 <210> 13
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Ag087 Reverse
 PCR Primer Sequence

 <400> 13
 agcagacttc cccggagtct 20

 <210> 14
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NOV2 Forward
 PCR Primer Sequence

 <400> 14
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 <210> 15
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NOV2 Reverse
 PCR Primer Sequence

 <400> 15
 ctcgaggggc ctggtgtcat agcggggcc 29

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<210> 16
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NOV2 S1 PCR
 Primer Sequence

 <400> 16
 tacctggagt cggaccgc 18

 <210> 17
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NOV2 S2 PCR
 Primer Sequence

 <400> 17
 gcggtccgac tccaggta 18

 <210> 18
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NOV2 S3 PCR
 Primer Sequence

 <400> 18
 cagtgcgtgc ggcactcag 19

 <210> 19
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NOV2 S4 PCR
 Primer Sequence

 <400> 19
 tgagtgccgc acgcactgg 19

 <210> 20
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NOV2 S5 PCR
 Primer Sequence

 <400> 20

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ctggaccag gtggccgc 18

<210> 21
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: NOV2 S6 PCR
 Primer Sequence

<400> 21
 gcggccacct ggtccag 18

<210> 22
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: NOV2 S7 PCR
 Primer Sequence

<400> 22
 cccgagcagc cgaacggc 18

<210> 23
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: NOV2 S8 PCR
 Primer Sequence

<400> 23
 gccgttcggc tgctcggg 18

<210> 24
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: NOV3 Forward
 PCR Primer Sequence

<400> 24
 ggatccacca cctgcccctc ggtgtgc 27

<210> 25
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: NOV3 Reverse
 PCR Primer Sequence

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<400> 25
ctcgaggcca gcgttctgct cctgggttgag tgtgg 35

<210> 26
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NOV3 S1 PCR
Primer Sequence

<400> 26
cgcaccattg ccagggaac 18

<210> 27
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NOV3 S2 PCR
Primer Sequence

<400> 27
gtccctggca atggtgac 18

<210> 28
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NOV3 S3 PCR
Primer Sequence

<400> 28
ctggtgcgca attcgctggc c 21

<210> 29
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NOV3 S4 PCR
Primer Sequence

<400> 29
ggccagcgaa ttgcgcacca g 21

<210> 30
<211> 18
<212> DNA
<213> Artificial Sequence

<220>

CURA 85 CON Sequence Listing 08_30_2004

<223> Description of Artificial Sequence: NOV3 S5 PCR
Primer Sequence

<400> 30
cacgcctctg ccaccacg 18

<210> 31
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NOV3 S6 PCR
Primer Sequence

<400> 31
cgtggtggca gaggcgtg 18

<210> 32
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: pSec-V5 His
Forward Oligonucleotide Primer Sequence

<400> 32
ctcgtcctcg agggtaagcc tatccctaac 30

<210> 33
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: pSec-V5 His
Reverse Oligonucleotide Primer Sequence

<400> 33
ctcgtcgggc ccctgatcag cgggtttaa c 31

<210> 34
<211> 40
<212> PRT
<213> Homo sapiens

<400> 34
Met Ala Asp Lys Pro Asp Met Gly Glu Ile Ala Ser Phe Asp Lys Ala
1 5 10 15
Lys Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys
20 25 30
Glu Thr Ile Glu Gln Glu Lys Arg
35 40

<210> 35

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<211> 10
 <212> PRT
 <213> Homo sapiens

<400> 35
 Lys Leu Lys Lys Thr Glu Thr Gln Glu Asn
 1 5 10

<210> 36
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 36
 Ala Asp Lys Pro Asp Met Gly Glu Ile Ala Ser Phe Asp Lys Ala Lys
 1 5 10 15
 Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu
 20 25 30
 Thr Ile Glu Gln Glu Lys
 35

<210> 37
 <211> 40
 <212> PRT
 <213> Bos taurus

<400> 37
 Ala Asp Lys Pro Asp Leu Gly Glu Ile Asn Ser Phe Asp Lys Ala Lys
 1 5 10 15
 Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu
 20 25 30
 Thr Ile Glu Gln Glu Lys Gln Ala
 35 40

<210> 38
 <211> 40
 <212> PRT
 <213> Sus scrofa

<400> 38
 Ala Asp Lys Pro Asp Met Gly Glu Ile Asn Ser Phe Asp Lys Ala Lys
 1 5 10 15
 Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu
 20 25 30
 Thr Ile Glu Gln Glu Lys Gln Ala
 35 40

<210> 39
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 39

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Ser Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ser Lys
 1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu
 20 25 30

Thr Ile Glu Gln Glu Lys Gln Ala
 35 40

<210> 40
 <211> 41
 <212> PRT
 <213> Mus musculus

<400> 40
 Met Ser Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ser
 1 5 10 15

Lys Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys
 20 25 30

Glu Thr Ile Glu Gln Glu Lys Gln Ala
 35 40

<210> 41
 <211> 40
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 41
 Ala Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ser Lys
 1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu
 20 25 30

Thr Ile Glu Gln Glu Lys Gln Ala
 35 40

<210> 42
 <211> 39
 <212> PRT
 <213> Xenopus laevis

<400> 42
 Ser Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ala Lys
 1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu
 20 25 30

Thr Ile Glu Gln Glu Lys Gln
 35

<210> 43
 <211> 40
 <212> PRT
 <213> Homo sapiens

CURA 85 CON Sequence Listing 08_30_2004

<400> 43

Ser Asp Lys Pro Gly Met Ala Glu Ile Glu Lys Phe Asp Lys Ser Lys
 1 5 10 15
 Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Ser Ser Lys Glu
 20 25 30
 Thr Ile Glu Gln Glu Arg Gln Ala
 35 40

<210> 44

<211> 40

<212> PRT

<213> Oncorhynchus mykiss

<400> 44

Ser Asp Lys Pro Asn Leu Glu Glu Val Ala Ser Phe Asp Lys Thr Lys
 1 5 10 15
 Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Thr Lys Glu
 20 25 30
 Thr Ile Glu Gln Glu Lys Gln Ala
 35 40

<210> 45

<211> 40

<212> PRT

<213> Oncorhynchus mykiss

<400> 45

Ser Asp Lys Pro Asp Leu Ala Glu Val Ser Asn Phe Asp Lys Thr Lys
 1 5 10 15
 Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Thr Lys Glu
 20 25 30
 Thr Ile Glu Gln Glu Lys Gln Ala
 35 40

<210> 46

<211> 40

<212> PRT

<213> Lateolabrax japonicus

<400> 46

Ser Asp Lys Pro Asp Ile Ser Glu Val Thr Ser Phe Asp Lys Thr Lys
 1 5 10 15
 Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu
 20 25 30
 Thr Ile Glu Gln Glu Lys Ala Ala
 35 40

<210> 47

<211> 39

<212> PRT

<213> Rattus norvegicus

CURA 85 CON Sequence Listing 08_30_2004

<400> 47

Met Ser Asp Lys Pro Asp Leu Ser Glu Val Glu Thr Phe Asp Lys Ser
 1 5 10 15
 Lys Leu Lys Lys Thr Asn Thr Glu Glu Lys Asn Thr Leu Pro Ser Lys
 20 25 30
 Glu Thr Ile Gln Gln Glu Lys
 35

<210> 48

<211> 38

<212> PRT

<213> Homo sapiens

<400> 48

Ser Asp Lys Pro Asp Leu Ser Glu Val Glu Lys Phe Asp Arg Ser Lys
 1 5 10 15
 Leu Lys Lys Thr Asn Thr Glu Glu Lys Asn Thr Leu Pro Ser Lys Glu
 20 25 30
 Thr Ile Gln Gln Glu Lys
 35

<210> 49

<211> 35

<212> PRT

<213> Drosophila melanogaster

<400> 49

Ile Ala Gly Ile Glu Asn Phe Asp Ala Lys Lys Leu Lys His Thr Glu
 1 5 10 15
 Thr Asn Glu Lys Asn Val Leu Pro Thr Lys Glu Val Ile Glu Ala Glu
 20 25 30
 Lys Gln Ala
 35

<210> 50

<211> 31

<212> PRT

<213> Drosophila melanogaster

<400> 50

Gly Ile Thr Ala Phe Asn Gln Asn Asn Leu Lys His Thr Glu Thr Asn
 1 5 10 15
 Glu Lys Asn Pro Leu Pro Asp Lys Glu Ala Ile Glu Gln Glu Lys
 20 25 30

<210> 51

<211> 38

<212> PRT

<213> Homo sapiens

<400> 51

CURA 85 CON Sequence Listing 08_30_2004

Ala Asp Lys Pro Asp Met Gly Glu Ile Ala Ser Phe Asp Lys Ala Lys
 1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu
 20 25 30

Thr Ile Glu Gln Glu Lys
 35

<210> 52

<211> 991

<212> PRT

<213> Mus musculus

<400> 52

Met Ala Pro Ala Arg Ala Arg Leu Ser Pro Ala Leu Trp Val Val Thr
 1 5 10 15

Ala Ala Ala Ala Ala Thr Cys Val Ser Ala Gly Arg Gly Glu Val Asn
 20 25 30

Leu Leu Asp Thr Ser Thr Ile His Gly Asp Trp Gly Trp Leu Thr Tyr
 35 40 45

Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe Arg
 50 55 60

Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln Asn
 65 70 75 80

Asn Trp Leu Arg Thr Asn Trp Val Pro Arg Asp Gly Ala Arg Arg Val
 85 90 95

Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Ile Pro Gly
 100 105 110

Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu His Tyr Leu Glu Ser
 115 120 125

Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys Ile
 130 135 140

Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly Val
 145 150 155 160

Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Gly Val Gly Pro Leu Ser
 165 170 175

Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu Ala
 180 185 190

Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val Arg
 195 200 205

Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser Ser
 210 215 220

Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg Asp
 225 230 235 240

Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly Glu Trp Leu Val Pro Ile
 245 250 255

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Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu Glu Arg Arg Asp Ala Cys
 260 265 270
 Met Ala Cys Glu Leu Gly Phe Tyr Lys Ser Ala Pro Gly Asp Gln Leu
 275 280 285
 Cys Ala Arg Cys Pro Pro His Ser His Ser Ala Thr Pro Ala Ala Gln
 290 295 300
 Thr Cys Arg Cys Asp Leu Ser Tyr Tyr Arg Ala Ala Leu Asp Pro Pro
 305 310 315 320
 Ser Ala Ala Cys Thr Arg Pro Pro Ser Ala Pro Val Asn Leu Ile Ser
 325 330 335
 Ser Val Asn Gly Thr Ser Val Thr Leu Glu Trp Ala Pro Pro Leu Asp
 340 345 350
 Pro Gly Gly Arg Ser Asp Ile Thr Tyr Asn Ala Val Cys Arg Arg Cys
 355 360 365
 Pro Trp Ala Leu Ser His Cys Glu Ala Cys Gly Ser Gly Thr Arg Phe
 370 375 380
 Val Pro Gln Gln Thr Ser Leu Ala Gln Ala Ser Leu Leu Val Ala Asn
 385 390 395 400
 Leu Leu Ala His Met Asn Tyr Ser Phe Trp Ile Glu Ala Val Asn Gly
 405 410 415
 Val Ser Asn Leu Ser Pro Glu Pro Arg Ser Ala Ala Val Val Asn Ile
 420 425 430
 Thr Thr Asn Gln Ala Ala Pro Ser Gln Val Val Val Ile Arg Gln Glu
 435 440 445
 Arg Ala Gly Gln Thr Ser Val Ser Leu Leu Trp Gln Glu Pro Glu Gln
 450 455 460
 Pro Asn Gly Ile Ile Leu Glu Tyr Glu Ile Lys Tyr Tyr Glu Lys Asp
 465 470 475 480
 Lys Glu Met Gln Ser Tyr Ser Thr Leu Lys Ala Val Thr Thr Arg Ala
 485 490 495
 Thr Val Ser Gly Leu Lys Pro Gly Thr Arg Tyr Val Phe Gln Val Arg
 500 505 510
 Ala Arg Thr Ser Ala Gly Cys Gly Arg Phe Ser Gln Ala Met Glu Val
 515 520 525
 Glu Thr Gly Lys Pro Arg Pro Arg Tyr Asp Thr Arg Thr Ile Val Trp
 530 535 540
 Ile Cys Leu Thr Leu Ile Thr Gly Leu Val Val Leu Leu Leu Leu Leu
 545 550 555 560
 Ile Cys Lys Lys Arg His Cys Gly Tyr Ser Lys Ala Phe Gln Asp Ser
 565 570 575
 Asp Glu Glu Lys Met His Tyr Gln Asn Gly Gln Ala Pro Pro Pro Val
 580 585 590

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Phe Leu Pro Leu Asn His Pro Pro Gly Lys Phe Pro Glu Thr Gln Phe
 595 600 605
 Ser Ala Glu Pro His Thr Tyr Glu Glu Pro Gly Arg Ala Gly Arg Ser
 610 615 620
 Phe Thr Arg Glu Ile Glu Ala Ser Arg Ile His Ile Glu Lys Ile Ile
 625 630 635 640
 Gly Ser Gly Glu Ser Gly Glu Val Cys Tyr Gly Arg Leu Gln Val Pro
 645 650 655
 Gly Gln Arg Asp Val Pro Val Ala Ile Lys Ala Leu Lys Ala Gly Tyr
 660 665 670
 Thr Glu Arg Gln Arg Gln Asp Phe Leu Ser Glu Ala Ala Ile Met Gly
 675 680 685
 Gln Phe Asp His Pro Asn Ile Ile Arg Leu Glu Gly Val Val Thr Arg
 690 695 700
 Gly Arg Leu Ala Met Ile Val Thr Glu Tyr Met Glu Asn Gly Ser Leu
 705 710 715 720
 Asp Ala Phe Leu Arg Thr His Asp Gly Gln Phe Thr Ile Val Gln Leu
 725 730 735
 Val Gly Met Leu Arg Gly Val Gly Ala Gly Met Arg Tyr Leu Ser Asp
 740 745 750
 Leu Gly Tyr Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Asp
 755 760 765
 Gly Arg Leu Val Cys Lys Val Ser Asp Phe Gly Leu Ser Arg Ala Leu
 770 775 780
 Glu Asp Asp Pro Glu Ala Ala Tyr Thr Thr Ala Gly Gly Lys Ile Pro
 785 790 795 800
 Ile Arg Trp Thr Ala Pro Glu Ala Ile Ala Phe Arg Thr Phe Ser Ser
 805 810 815
 Ala Ser Asp Val Trp Ser Phe Gly Val Val Met Trp Glu Val Leu Ala
 820 825 830
 Tyr Gly Glu Arg Pro Tyr Trp Asn Met Thr Asn Gln Asp Val Ile Ser
 835 840 845
 Ser Val Glu Glu Gly Tyr Arg Leu Pro Ala Pro Met Gly Cys Pro Arg
 850 855 860
 Ala Leu His Gln Leu Met Leu Asp Cys Trp His Lys Asp Arg Ala Gln
 865 870 875 880
 Arg Pro Arg Phe Ala His Val Val Ser Val Leu Asp Ala Leu Val His
 885 890 895
 Ser Pro Glu Ser Leu Arg Ala Thr Ala Thr Val Ser Arg Cys Pro Pro
 900 905 910
 Pro Ala Phe Ala Arg Ser Cys Phe Asp Leu Arg Ala Gly Gly Ser Gly
 915 920 925

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Asn Gly Asp Leu Thr Val Gly Asp Trp Leu Asp Ser Ile Arg Met Gly
 930 935 940
 Arg Tyr Arg Asp His Phe Ala Ala Gly Gly Tyr Ser Ser Leu Gly Met
 945 950 955 960
 Val Leu Arg Met Asn Ala Gln Asp Val Arg Ala Leu Gly Ile Thr Leu
 965 970 975
 Met Gly His Gln Lys Lys Ile Leu Gly Ser Ile Gln Thr Met Arg
 980 985 990

<210> 53
 <211> 992
 <212> PRT
 <213> Homo sapiens

<400> 53
 Met Ala Pro Ala Arg Gly Arg Leu Pro Pro Ala Leu Trp Val Val Thr
 1 5 10 15
 Ala Ala Ala Ala Ala Ala Thr Cys Val Ser Ala Ala Arg Gly Glu Val
 20 25 30
 Asn Leu Leu Asp Thr Ser Thr Ile His Gly Asp Trp Gly Trp Leu Thr
 35 40 45
 Tyr Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe
 50 55 60
 Gln Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln
 65 70 75 80
 Asn Asn Trp Leu Arg Thr Ser Trp Val Pro Arg Asp Gly Ala Arg Arg
 85 90 95
 Val Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Met Pro
 100 105 110
 Gly Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Leu Glu
 115 120 125
 Ser Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys
 130 135 140
 Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly
 145 150 155 160
 Val Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Ser Val Gly Pro Leu
 165 170 175
 Ser Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu
 180 185 190
 Ala Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val
 195 200 205
 Arg Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser
 210 215 220
 Ser Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg

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225		230		235		240
Asp Thr Pro Lys	Met 245	Tyr Cys Ser Ala	Glu 250	Gly Glu Trp Leu	Val 255	Pro
Ile Gly Lys	Cys 260	Val Cys Ser Ala	Gly 265	Tyr Glu Glu Arg	Arg 270	Asp Ala
Cys Val	Ala 275	Cys Glu Leu Gly	Phe 280	Tyr Lys Ser Ala	Pro 285	Gly Asp Gln
Leu Cys	Ala 290	Arg Cys Pro	Pro 295	His Ser His Ser	Ala 300	Ala Pro Ala Ala
Gln 305	Ala Cys His	Cys Asp 310	Leu Ser Tyr Tyr	Arg 315	Ala Ala Leu Asp	Pro 320
Pro Ser Ser	Ala Cys 325	Thr Arg Pro	Pro Ser 330	Ala Pro Val	Asn 335	Leu Ile
Ser Ser Val	Asn 340	Gly Thr Ser	Val Thr 345	Leu Glu Trp	Ala 350	Pro Pro Leu
Asp Pro	Gly 355	Gly Arg Ser	Asp Ile 360	Thr Tyr Asn	Ala 365	Val Cys Arg Arg
Cys Pro	Trp 370	Ala Leu Ser	Arg 375	Cys Glu Ala	Cys 380	Gly Ser Gly Thr Arg
Phe Val	Pro 385	Gln Gln Thr	Ser 390	Leu Val Gln	Ala 395	Ser Leu Leu Val Ala
Asn Leu Leu	Ala 400	His Met Asn	Tyr Ser 405	Phe Trp Ile	Glu 410	Ala Val Asn 415
Gly Val	Ser 420	Asp Leu Ser	Pro Glu 425	Pro Arg Arg	Ala 430	Ala Val Val Asn
Ile Thr	Thr 435	Asn Gln Ala	Ala Pro 440	Ser Gln Val	Val 445	Val Ile Arg Gln
Glu Arg	Ala 450	Gly Gln Thr	Ser 455	Val Ser Leu	Leu 460	Trp Gln Glu Pro Glu
Gln 465	Pro Asn Gly	Ile Ile 470	Leu Glu Tyr	Glu Ile 475	Lys Tyr Tyr	Glu Lys 480
Asp Lys	Glu 485	Met Gln Ser	Tyr Ser Thr	Leu 490	Lys Ala Val	Thr Thr Arg 495
Ala Thr	Val 500	Ser Gly Leu	Lys Pro Gly 505	Thr Arg Tyr	Val 510	Phe Gln Val
Arg Ala	Arg 515	Thr Ser Ala	Gly Cys 520	Gly Arg Phe	Ser 525	Gln Ala Met Glu
Val Glu	Thr 530	Gly Lys Pro	Arg 535	Pro Arg Tyr	Asp 540	Thr Arg Thr Ile Val
Trp 545	Ile Cys Leu	Thr Leu 550	Ile Thr Gly	Leu Val 555	Val Leu Leu Leu	Leu 560
Leu Ile	Cys Lys Lys	Arg His Cys	Gly Tyr Ser	Lys Ala Phe	Gln Asp	

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565

570

575

Ser Asp Glu Glu Lys Met His Tyr Gln Asn Gly Gln Ala Pro Pro Pro
 580 585 590
 Val Phe Leu Pro Leu His His Pro Pro Gly Lys Leu Pro Glu Pro Gln
 595 600 605
 Phe Tyr Ala Glu Pro His Thr Tyr Glu Glu Pro Gly Arg Ala Gly Arg
 610 615 620
 Ser Phe Thr Arg Glu Ile Glu Ala Ser Arg Ile His Ile Glu Lys Ile
 625 630 635 640
 Ile Gly Ser Gly Asp Ser Gly Glu Val Cys Tyr Gly Arg Leu Arg Val
 645 650 655
 Pro Gly Gln Arg Asp Val Pro Val Ala Ile Lys Ala Leu Lys Ala Gly
 660 665 670
 Tyr Thr Glu Arg Gln Arg Arg Asp Phe Leu Ser Glu Ala Ser Ile Met
 675 680 685
 Gly Gln Phe Asp His Pro Asn Ile Ile Arg Leu Glu Gly Val Val Thr
 690 695 700
 Arg Gly Arg Leu Ala Met Ile Val Thr Glu Tyr Met Glu Asn Gly Ser
 705 710 715 720
 Leu Asp Thr Phe Leu Arg Thr His Asp Gly Gln Phe Thr Ile Met Gln
 725 730 735
 Leu Val Gly Met Leu Arg Gly Val Gly Ala Gly Met Arg Tyr Leu Ser
 740 745 750
 Asp Leu Gly Tyr Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val
 755 760 765
 Asp Ser Asn Leu Val Cys Lys Val Ser Asp Phe Gly Leu Ser Arg Val
 770 775 780
 Leu Glu Asp Asp Pro Asp Ala Ala Tyr Thr Thr Thr Gly Gly Lys Ile
 785 790 795 800
 Pro Ile Arg Trp Thr Ala Pro Glu Ala Ile Ala Phe Arg Thr Phe Ser
 805 810 815
 Ser Ala Ser Asp Val Trp Ser Phe Gly Val Val Met Trp Glu Val Leu
 820 825 830
 Ala Tyr Gly Glu Arg Pro Tyr Trp Asn Met Thr Asn Arg Asp Val Ile
 835 840 845
 Ser Ser Val Glu Glu Gly Tyr Arg Leu Pro Ala Pro Met Gly Cys Pro
 850 855 860
 His Ala Leu His Gln Leu Met Leu Asp Cys Trp His Lys Asp Arg Ala
 865 870 875 880
 Gln Arg Pro Arg Phe Ser Gln Ile Val Ser Val Leu Asp Ala Leu Ile
 885 890 895
 Arg Ser Pro Glu Ser Leu Arg Ala Thr Ala Thr Val Ser Arg Cys Pro

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905 910

900

Pro Pro Ala Phe Val Arg Ser Cys Phe Asp Leu Arg Gly Gly Ser Gly
915 920 925
Gly Gly Gly Gly Leu Thr Val Gly Asp Trp Leu Asp Ser Ile Arg Met
930 935 940
Gly Arg Tyr Arg Asp His Phe Ala Ala Gly Gly Tyr Ser Ser Leu Gly
945 950 955 960
Met Val Leu Arg Met Asn Ala Gln Asp Val Arg Ala Leu Gly Ile Thr
965 970 975
Leu Met Gly His Gln Lys Lys Ile Leu Gly Ser Ile Gln Thr Met Arg
980 985 990

<210> 54
<211> 450
<212> PRT
<213> Mus musculus

<400> 54

Met Ala Pro Ala Arg Ala Arg Leu Ser Pro Ala Leu Trp Val Val Thr
1 5 10 15
Ala Ala Ala Ala Ala Thr Cys Val Ser Ala Gly Arg Gly Glu Val Asn
20 25 30
Leu Leu Asp Thr Ser Thr Ile His Gly Asp Trp Gly Trp Leu Thr Tyr
35 40 45
Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe Arg
50 55 60
Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln Asn
65 70 75 80
Asn Trp Leu Arg Thr Asn Trp Val Pro Arg Asp Gly Ala Arg Arg Val
85 90 95
Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Ile Pro Gly
100 105 110
Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu His Tyr Leu Glu Ser
115 120 125
Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys Ile
130 135 140
Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly Val
145 150 155 160
Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Gly Val Gly Pro Leu Ser
165 170 175
Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu Ala
180 185 190

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Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val Arg
 195 200 205

Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser Ser
 210 215 220

Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg Asp
 225 230 235 240

Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly Glu Trp Leu Val Pro Ile
 245 250 255

Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu Glu Arg Arg Asp Ala Cys
 260 265 270

Met Ala Cys Glu Leu Gly Phe Tyr Lys Ser Ala Pro Gly Asp Gln Leu
 275 280 285

Cys Ala Arg Cys Pro Pro His Ser His Ser Ala Thr Pro Ala Ala Gln
 290 295 300

Thr Cys Arg Cys Asp Leu Ser Tyr Tyr Arg Ala Ala Leu Asp Pro Pro
 305 310 315 320

Ser Ala Ala Cys Thr Arg Pro Pro Ser Ala Pro Val Asn Leu Ile Ser
 325 330 335

Ser Val Asn Gly Thr Ser Val Thr Leu Glu Trp Ala Pro Pro Leu Asp
 340 345 350

Pro Gly Gly Arg Ser Asp Ile Thr Tyr Asn Ala Val Cys Arg Arg Cys
 355 360 365

Pro Trp Ala Leu Ser His Cys Glu Ala Cys Gly Ser Gly Thr Arg Phe
 370 375 380

Val Pro Gln Gln Thr Ser Leu Ala Gln Ala Ser Leu Leu Val Ala Asn
 385 390 395 400

Leu Leu Ala His Met Asn Tyr Ser Phe Trp Ile Glu Ala Val Asn Gly
 405 410 415

Val Ser Asn Leu Ser Pro Glu Pro Arg Ser Ala Ala Val Val Asn Ile
 420 425 430

Thr Thr Asn Gln Ala Ala Pro Ser Gln Val Val Val Ile Arg Gln Glu
 435 440 445

Arg Ala
 450

<210> 55
 <211> 480
 <212> PRT
 <213> Homo sapiens

<400> 55
 Met Arg Gly Ser Gly Pro Arg Gly Ala Gly His Arg Arg Pro Pro Ser
 1 5 10 15

Gly Gly Gly Asp Thr Pro Ile Thr Pro Ala Ser Leu Ala Gly Cys Tyr
 20 25 30

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Ser Ala Pro Arg Arg Ala Pro Leu Trp Thr Cys Leu Leu Leu Cys Ala
 35 40 45
 Ala Leu Arg Thr Leu Leu Ala Ser Pro Ser Asn Glu Val Asn Leu Leu
 50 55 60
 Asp Ser Arg Thr Val Met Gly Asp Leu Gly Trp Ile Ala Phe Pro Lys
 65 70 75 80
 Asn Gly Trp Glu Glu Ile Gly Glu Val Asp Glu Asn Tyr Ala Pro Ile
 85 90 95
 His Thr Tyr Gln Val Cys Lys Val Met Glu Gln Asn Gln Asn Asn Trp
 100 105 110
 Leu Leu Thr Ser Trp Ile Ser Asn Glu Gly Ala Ser Arg Ile Phe Ile
 115 120 125
 Glu Leu Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro Gly Gly Leu
 130 135 140
 Gly Thr Cys Lys Glu Thr Phe Asn Met Tyr Tyr Phe Glu Ser Asp Asp
 145 150 155 160
 Gln Asn Gly Arg Asn Ile Lys Glu Asn Gln Tyr Ile Lys Ile Asp Thr
 165 170 175
 Ile Ala Ala Asp Glu Ser Phe Thr Glu Leu Asp Leu Gly Asp Arg Val
 180 185 190
 Met Lys Leu Asn Thr Glu Val Arg Asp Val Gly Pro Leu Ser Lys Lys
 195 200 205
 Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile Ala Leu Val
 210 215 220
 Ser Val Arg Val Tyr Tyr Lys Lys Cys Pro Ser Val Val Arg His Leu
 225 230 235 240
 Ala Val Phe Pro Asp Thr Ile Thr Gly Ala Asp Ser Ser Gln Leu Leu
 245 250 255
 Glu Val Ser Gly Ser Cys Val Asn His Ser Val Thr Asp Glu Pro Pro
 260 265 270
 Lys Met His Cys Ser Ala Glu Gly Glu Trp Leu Val Pro Ile Gly Lys
 275 280 285
 Cys Met Cys Lys Ala Gly Tyr Glu Glu Lys Asn Gly Thr Cys Gln Val
 290 295 300
 Cys Arg Pro Gly Phe Phe Lys Ala Ser Pro His Ile Gln Ser Cys Gly
 305 310 315 320
 Lys Cys Pro Pro His Ser Tyr Thr His Glu Glu Ala Ser Thr Ser Cys
 325 330 335
 Val Cys Glu Lys Asp Tyr Phe Arg Arg Glu Ser Asp Pro Pro Thr Met
 340 345 350
 Ala Cys Thr Arg Pro Pro Ser Ala Pro Arg Asn Ala Ile Ser Asn Val
 355 360 365

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Asn Glu Thr Ser Val Phe Leu Glu Trp Ile Pro Pro Ala Asp Thr Gly
 370 375 380
 Gly Arg Lys Asp Val Ser Tyr Tyr Ile Ala Cys Lys Lys Cys Asn Ser
 385 390 395 400
 His Ala Gly Val Cys Glu Glu Cys Gly Gly His Val Arg Tyr Leu Pro
 405 410 415
 Arg Gln Ser Gly Leu Lys Asn Thr Ser Val Met Met Val Asp Leu Leu
 420 425 430
 Ala His Thr Asn Tyr Thr Phe Glu Ile Glu Ala Val Asn Gly Val Ser
 435 440 445
 Asp Leu Ser Pro Gly Ala Arg Gln Tyr Val Ser Val Asn Val Thr Thr
 450 455 460
 Asn Gln Ala Ala Pro Ser Pro Val Thr Asn Val Lys Lys Gly Lys Ile
 465 470 475 480

<210> 56
 <211> 456
 <212> PRT
 <213> Gallus gallus

<400> 56
 Met Gly Leu Arg Gly Gly Gly Gly Arg Ala Gly Gly Pro Ala Pro Gly
 1 5 10 15
 Trp Thr Cys Leu Leu Leu Cys Ala Ala Leu Arg Ser Leu Leu Ala Ser
 20 25 30
 Pro Gly Ser Glu Val Asn Leu Leu Asp Ser Arg Thr Val Met Gly Asp
 35 40 45
 Leu Gly Trp Ile Ala Tyr Pro Lys Asn Gly Trp Glu Glu Ile Gly Glu
 50 55 60
 Val Asp Glu Asn Tyr Ala Pro Ile His Thr Tyr Gln Val Cys Lys Val
 65 70 75 80
 Met Glu Gln Asn Gln Asn Asn Trp Leu Leu Thr Ser Trp Ile Ser Asn
 85 90 95
 Glu Gly Arg Pro Ala Ser Ser Phe Glu Leu Lys Phe Thr Leu Arg Asp
 100 105 110
 Cys Asn Ser Leu Pro Gly Gly Leu Gly Thr Cys Lys Glu Thr Phe Asn
 115 120 125
 Met Tyr Tyr Phe Glu Ser Asp Asp Glu Asp Gly Arg Asn Ile Arg Glu
 130 135 140
 Asn Gln Tyr Ile Lys Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr
 145 150 155 160
 Glu Leu Asp Leu Gly Asp Arg Val Met Lys Leu Asn Thr Glu Val Arg

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165

170

175

Asp Val Gly Pro Leu Thr Lys Lys Gly Phe Tyr Leu Ala Phe Gln Asp
 180 185 190
 Val Gly Ala Cys Ile Ala Leu Val Ser Val Arg Val Tyr Tyr Lys Lys
 195 200 205
 Cys Pro Ser Val Ile Arg Asn Leu Ala Arg Phe Pro Asp Thr Ile Thr
 210 215 220
 Gly Ala Asp Ser Ser Gln Leu Leu Glu Val Ser Gly Val Cys Val Asn
 225 230 235 240
 His Ser Val Thr Asp Glu Ala Pro Lys Met His Cys Ser Ala Glu Gly
 245 250 255
 Glu Trp Leu Val Pro Ile Gly Lys Cys Leu Cys Lys Ala Gly Tyr Glu
 260 265 270
 Glu Lys Asn Asn Thr Cys Gln Val Cys Arg Pro Gly Phe Phe Lys Ala
 275 280 285
 Ser Pro His Ser Pro Ser Cys Ser Lys Cys Pro Pro His Ser Tyr Thr
 290 295 300
 Leu Asp Glu Ala Ser Thr Ser Cys Leu Cys Glu Glu His Tyr Phe Arg
 305 310 315 320
 Arg Glu Ser Asp Pro Pro Thr Met Ala Cys Thr Arg Pro Pro Ser Ala
 325 330 335
 Pro Arg Ser Ala Ile Ser Asn Val Asn Glu Thr Ser Val Phe Leu Glu
 340 345 350
 Trp Ile Pro Pro Ala Asp Thr Gly Gly Arg Lys Asp Val Ser Tyr Tyr
 355 360 365
 Ile Ala Cys Lys Lys Cys Asn Ser His Ser Gly Leu Cys Glu Ala Cys
 370 375 380
 Gly Ser His Val Arg Tyr Leu Pro Gln Gln Thr Gly Leu Lys Asn Thr
 385 390 395 400
 Ser Val Met Met Val Asp Leu Leu Ala His Thr Asn Tyr Thr Phe Glu
 405 410 415
 Ile Glu Ala Val Asn Gly Val Ser Asp Gln Asn Pro Gly Ala Arg Gln
 420 425 430
 Phe Val Ser Val Asn Val Thr Thr Asn Gln Ala Ala Pro Ser Pro Val
 435 440 445
 Ser Ser Val Lys Lys Gly Lys Ile
 450 455

<210> 57

<211> 649

<212> PRT

<213> Homo sapiens

<400> 57

CURA 85 CON Sequence Listing 08_30_2004

Met Ile Ser Ala Ala Trp Ser Ile Phe Leu Ile Gly Thr Lys Ile Gly
 1 5 10 15
 Leu Phe Leu Gln Val Ala Pro Leu Ser Val Met Ala Lys Ser Cys Pro
 20 25 30
 Ser Val Cys Arg Cys Asp Ala Gly Phe Ile Tyr Cys Asn Asp Arg Phe
 35 40 45
 Leu Thr Ser Ile Pro Thr Gly Ile Pro Glu Asp Ala Thr Thr Leu Tyr
 50 55 60
 Leu Gln Asn Asn Gln Ile Asn Asn Ala Gly Ile Pro Ser Asp Leu Lys
 65 70 75 80
 Asn Leu Leu Lys Val Glu Arg Ile Tyr Leu Tyr His Asn Ser Leu Asp
 85 90 95
 Glu Phe Pro Thr Asn Leu Pro Lys Tyr Val Lys Glu Leu His Leu Gln
 100 105 110
 Glu Asn Asn Ile Arg Thr Ile Thr Tyr Asp Ser Leu Ser Lys Ile Pro
 115 120 125
 Tyr Leu Glu Glu Leu His Leu Asp Asp Asn Ser Val Ser Ala Val Ser
 130 135 140
 Ile Glu Glu Gly Ala Phe Arg Asp Ser Asn Tyr Leu Arg Leu Leu Phe
 145 150 155 160
 Leu Ser Arg Asn His Leu Ser Thr Ile Pro Trp Gly Leu Pro Arg Thr
 165 170 175
 Ile Glu Glu Leu Arg Leu Asp Asp Asn Arg Ile Ser Thr Ile Ser Ser
 180 185 190
 Pro Ser Leu Gln Gly Leu Thr Ser Leu Lys Arg Leu Val Leu Asp Gly
 195 200 205
 Asn Leu Leu Asn Asn His Gly Leu Gly Asp Lys Val Phe Phe Asn Leu
 210 215 220
 Val Asn Leu Thr Glu Leu Ser Leu Val Arg Asn Ser Leu Thr Ala Ala
 225 230 235 240
 Pro Val Asn Leu Pro Gly Thr Asn Leu Arg Lys Leu Tyr Leu Gln Asp
 245 250 255
 Asn His Ile Asn Arg Val Pro Pro Asn Ala Phe Ser Tyr Leu Arg Gln
 260 265 270
 Leu Tyr Arg Leu Asp Met Ser Asn Asn Asn Leu Ser Asn Leu Pro Gln
 275 280 285
 Gly Ile Phe Asp Asp Leu Asp Asn Ile Thr Gln Leu Ile Leu Arg Asn
 290 295 300
 Asn Pro Trp Tyr Cys Gly Cys Lys Met Lys Trp Val Arg Asp Trp Leu
 305 310 315 320
 Gln Ser Leu Pro Val Lys Val Asn Val Arg Gly Leu Met Cys Gln Ala
 325 330 335

CURA 85 CON Sequence Listing 08_30_2004

Pro Glu Lys Val Arg Gly Met Ala Ile Lys Asp Leu Asn Ala Glu Leu
 340 345 350
 Phe Asp Cys Lys Asp Ser Gly Ile Val Ser Thr Ile Gln Ile Thr Thr
 355 360 365
 Ala Ile Pro Asn Thr Val Tyr Pro Ala Gln Gly Gln Trp Pro Ala Pro
 370 375 380
 Val Thr Lys Gln Pro Asp Ile Lys Asn Pro Lys Leu Thr Lys Asp His
 385 390 395 400
 Gln Thr Thr Gly Ser Pro Ser Arg Lys Thr Ile Thr Ile Thr Val Lys
 405 410 415
 Ser Val Thr Ser Asp Thr Ile His Ile Ser Trp Lys Leu Ala Leu Pro
 420 425 430
 Met Thr Ala Leu Arg Leu Ser Trp Leu Lys Leu Gly His Ser Pro Ala
 435 440 445
 Phe Gly Ser Ile Thr Glu Thr Ile Val Thr Gly Glu Arg Ser Glu Tyr
 450 455 460
 Leu Val Thr Ala Leu Glu Pro Asp Ser Pro Tyr Lys Val Cys Met Val
 465 470 475 480
 Pro Met Glu Thr Ser Asn Leu Tyr Leu Phe Asp Glu Thr Pro Val Cys
 485 490 495
 Ile Glu Thr Glu Thr Ala Pro Leu Arg Met Tyr Asn Pro Thr Thr Thr
 500 505 510
 Leu Asn Arg Glu Gln Glu Lys Glu Pro Tyr Lys Asn Pro Asn Leu Pro
 515 520 525
 Leu Ala Ala Ile Ile Gly Gly Ala Val Ala Leu Val Thr Ile Ala Leu
 530 535 540
 Leu Ala Leu Val Cys Trp Tyr Val His Arg Asn Gly Ser Leu Phe Ser
 545 550 555 560
 Arg Asn Cys Ala Tyr Ser Lys Gly Arg Arg Arg Lys Asp Asp Tyr Ala
 565 570 575
 Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Glu Thr
 580 585 590
 Ser Phe Gln Met Leu Pro Ile Ser Asn Glu Pro Ile Ser Lys Glu Glu
 595 600 605
 Phe Val Ile His Thr Ile Phe Pro Pro Asn Gly Met Asn Leu Tyr Lys
 610 615 620
 Asn Asn His Ser Glu Ser Ser Ser Asn Arg Ser Tyr Arg Asp Ser Gly
 625 630 635 640
 Ile Pro Asp Ser Asp His Ser His Ser
 645

<210> 58

<211> 660

CURA 85 CON Sequence Listing 08_30_2004

<212> PRT

<213> Homo sapiens

<400> 58

Met Gly Leu Gln Thr Thr Lys Trp Pro Ser His Gly Ala Phe Phe Leu
 1 5 10 15
 Lys Ser Trp Leu Ile Ile Ser Leu Gly Leu Tyr Ser Gln Val Ser Lys
 20 25 30
 Leu Leu Ala Cys Pro Ser Val Cys Arg Cys Asp Arg Asn Phe Val Tyr
 35 40 45
 Cys Asn Glu Arg Ser Leu Thr Ser Val Pro Leu Gly Ile Pro Glu Gly
 50 55 60
 Val Thr Val Leu Tyr Leu His Asn Asn Gln Ile Asn Asn Ala Gly Phe
 65 70 75 80
 Pro Ala Glu Leu His Asn Val Gln Ser Val His Thr Val Tyr Leu Tyr
 85 90 95
 Gly Asn Gln Leu Asp Glu Phe Pro Met Asn Leu Pro Lys Asn Val Arg
 100 105 110
 Val Leu His Leu Gln Glu Asn Asn Ile Gln Thr Ile Ser Arg Ala Ala
 115 120 125
 Leu Ala Gln Leu Leu Lys Leu Glu Glu Leu His Leu Asp Asp Asn Ser
 130 135 140
 Ile Ser Thr Val Gly Val Glu Asp Gly Ala Phe Arg Glu Ala Ile Ser
 145 150 155 160
 Leu Lys Leu Leu Phe Leu Ser Lys Asn His Leu Ser Ser Val Pro Val
 165 170 175
 Gly Leu Pro Val Asp Leu Gln Glu Leu Arg Val Asp Glu Asn Arg Ile
 180 185 190
 Ala Val Ile Ser Asp Met Ala Phe Gln Asn Leu Thr Ser Leu Glu Arg
 195 200 205
 Leu Ile Val Asp Gly Asn Leu Leu Thr Asn Lys Gly Ile Ala Glu Gly
 210 215 220
 Thr Phe Ser His Leu Thr Lys Leu Lys Glu Phe Ser Ile Val Arg Asn
 225 230 235 240
 Ser Leu Ser His Pro Pro Pro Asp Leu Pro Gly Thr His Leu Ile Arg
 245 250 255
 Leu Tyr Leu Gln Asp Asn Gln Ile Asn His Ile Pro Leu Thr Ala Phe
 260 265 270
 Ser Asn Leu Arg Lys Leu Glu Arg Leu Asp Ile Ser Asn Asn Gln Leu
 275 280 285
 Arg Met Leu Thr Gln Gly Val Phe Asp Asn Leu Ser Asn Leu Lys Gln
 290 295 300
 Leu Thr Ala Arg Asn Asn Pro Trp Phe Cys Asp Cys Ser Ile Lys Trp
 305 310 315 320

CURA 85 CON Sequence Listing 08_30_2004

Val Thr Glu Trp Leu Lys Tyr Ile Pro Ser Ser Leu Asn Val Arg Gly
 325 330 335
 Phe Met Cys Gln Gly Pro Glu Gln Val Arg Gly Met Ala Val Arg Glu
 340 345 350
 Leu Asn Met Asn Leu Leu Ser Cys Pro Thr Thr Thr Pro Gly Leu Pro
 355 360 365
 Leu Phe Thr Pro Ala Pro Ser Thr Ala Ser Pro Thr Thr Gln Pro Pro
 370 375 380
 Thr Leu Ser Ile Pro Asn Pro Ser Arg Ser Tyr Thr Pro Pro Thr Pro
 385 390 395 400
 Thr Thr Ser Lys Leu Pro Thr Ile Pro Asp Trp Asp Gly Arg Glu Arg
 405 410 415
 Val Thr Pro Pro Ile Ser Glu Arg Ile Gln Leu Ser Ile His Phe Val
 420 425 430
 Asn Asp Thr Ser Ile Gln Val Ser Trp Leu Ser Leu Phe Thr Val Met
 435 440 445
 Ala Tyr Lys Leu Thr Trp Val Lys Met Gly His Ser Leu Val Gly Gly
 450 455 460
 Ile Val Gln Glu Arg Ile Val Ser Gly Glu Lys Gln His Leu Ser Leu
 465 470 475 480
 Val Asn Leu Glu Pro Arg Ser Thr Tyr Arg Ile Cys Leu Val Pro Leu
 485 490 495
 Asp Ala Phe Asn Tyr Arg Ala Val Glu Asp Thr Ile Cys Ser Glu Ala
 500 505 510
 Thr Thr His Ala Ser Tyr Leu Asn Asn Gly Ser Asn Thr Ala Ser Ser
 515 520 525
 His Glu Gln Thr Thr Ser His Ser Met Gly Ser Pro Phe Leu Leu Ala
 530 535 540
 Gly Leu Ile Gly Gly Ala Val Ile Phe Val Leu Val Val Leu Leu Ser
 545 550 555 560
 Val Phe Cys Trp His Met His Lys Lys Gly Arg Tyr Thr Ser Gln Lys
 565 570 575
 Trp Lys Tyr Asn Arg Gly Arg Arg Lys Asp Asp Tyr Cys Glu Ala Gly
 580 585 590
 Thr Lys Lys Asp Asn Ser Ile Leu Glu Met Thr Glu Thr Ser Phe Gln
 595 600 605
 Ile Val Ser Leu Asn Asn Asp Gln Leu Leu Lys Gly Asp Phe Arg Leu
 610 615 620
 Gln Pro Ile Tyr Thr Pro Asn Gly Gly Ile Asn Tyr Thr Asp Cys His
 625 630 635 640
 Ile Pro Asn Asn Met Arg Tyr Cys Asn Ser Ser Val Pro Asp Leu Glu
 645 650 655

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His Cys His Thr
660

<210> 59
<211> 674
<212> PRT
<213> Homo sapiens

<400> 59
Met Val Val Ala His Pro Thr Ala Thr Ala Thr Thr Thr Pro Thr Ala
1 5 10 15
Thr Val Thr Ala Thr Val Val Met Thr Thr Ala Thr Met Asp Leu Arg
20 25 30
Asp Trp Leu Phe Leu Cys Tyr Gly Leu Ile Ala Phe Leu Thr Glu Val
35 40 45
Ile Asp Ser Thr Thr Cys Pro Ser Val Cys Arg Cys Asp Asn Gly Phe
50 55 60
Ile Tyr Cys Asn Asp Arg Gly Leu Thr Ser Ile Pro Ala Asp Ile Pro
65 70 75 80
Asp Asp Ala Thr Thr Leu Tyr Leu Gln Asn Asn Gln Ile Asn Asn Ala
85 90 95
Gly Ile Pro Gln Asp Leu Lys Thr Lys Val Asn Val Gln Val Ile Tyr
100 105 110
Leu Tyr Glu Asn Asp Leu Asp Glu Phe Pro Ile Asn Leu Pro Arg Ser
115 120 125
Leu Arg Glu Leu His Leu Gln Asp Asn Asn Val Arg Thr Ile Ala Arg
130 135 140
Asp Ser Leu Ala Arg Ile Pro Leu Leu Glu Lys Leu His Leu Asp Asp
145 150 155 160
Asn Ser Val Ser Thr Val Ser Ile Glu Glu Asp Ala Phe Ala Asp Ser
165 170 175
Lys Gln Leu Lys Leu Leu Phe Leu Ser Arg Asn His Leu Ser Ser Ile
180 185 190
Pro Ser Gly Leu Pro His Thr Leu Glu Glu Leu Arg Leu Asp Asp Asn
195 200 205
Arg Ile Ser Thr Ile Pro Leu His Ala Phe Lys Gly Leu Asn Ser Leu
210 215 220
Arg Arg Leu Val Leu Asp Gly Asn Leu Leu Ala Asn Gln Arg Ile Ala
225 230 235 240
Asp Asp Thr Phe Ser Arg Leu Gln Asn Leu Thr Glu Leu Ser Leu Val
245 250 255
Arg Asn Ser Leu Ala Ala Pro Pro Leu Asn Leu Pro Ser Ala His Leu
260 265 270
Gln Lys Leu Tyr Leu Gln Asp Asn Ala Ile Ser His Ile Pro Tyr Asn

CURA 85 CON Sequence Listing 08_30_2004
280 285

275

Thr Leu Ala Lys Met Arg Glu Leu Glu Arg Leu Asp Leu Ser Asn Asn
290 295 300
Asn Leu Thr Thr Leu Pro Arg Gly Leu Phe Asp Asp Leu Gly Asn Leu
305 310 315 320
Ala Gln Leu Leu Leu Arg Asn Asn Pro Trp Phe Cys Gly Cys Asn Leu
325 330 335
Met Trp Leu Arg Asp Trp Val Lys Ala Arg Ala Ala Val Val Asn Val
340 345 350
Arg Gly Leu Met Cys Gln Gly Pro Glu Lys Val Arg Gly Met Ala Ile
355 360 365
Lys Asp Ile Thr Ser Glu Met Asp Glu Cys Phe Glu Thr Gly Pro Gln
370 375 380
Gly Gly Val Ala Asn Ala Ala Ala Lys Thr Thr Ala Ser Asn His Ala
385 390 395 400
Ser Ala Thr Thr Pro Gln Gly Ser Leu Phe Thr Leu Lys Ala Lys Arg
405 410 415
Pro Gly Leu Arg Leu Pro Asp Ser Asn Ile Asp Tyr Pro Met Ala Thr
420 425 430
Gly Asp Gly Ala Lys Thr Leu Ala Ile His Val Lys Ala Leu Thr Ala
435 440 445
Asp Ser Ile Arg Ile Thr Trp Lys Ala Thr Leu Pro Ala Ser Ser Phe
450 455 460
Arg Leu Ser Trp Leu Arg Leu Gly His Ser Pro Ala Val Gly Ser Ile
465 470 475 480
Thr Glu Thr Leu Val Gln Gly Asp Lys Thr Glu Tyr Leu Leu Thr Ala
485 490 495
Leu Glu Pro Lys Ser Thr Tyr Ile Ile Cys Met Val Thr Met Glu Thr
500 505 510
Ser Asn Ala Tyr Val Ala Asp Glu Thr Pro Val Cys Ala Lys Ala Glu
515 520 525
Thr Ala Asp Ser Tyr Gly Pro Thr Thr Thr Leu Asn Gln Glu Gln Asn
530 535 540
Ala Gly Pro Met Ala Ser Leu Pro Leu Ala Gly Ile Ile Gly Gly Ala
545 550 555 560
Val Ala Leu Val Phe Leu Phe Leu Val Leu Gly Ala Ile Cys Trp Tyr
565 570 575
Val His Gln Ala Gly Glu Leu Leu Thr Arg Glu Arg Ala Tyr Asn Arg
580 585 590
Gly Ser Arg Glu Lys Asp Asp Tyr Met Glu Ser Gly Thr Lys Lys Asp
595 600 605
Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln Met Leu Pro Ile

CURA 85 CON Sequence Listing 08_30_2004
615 620

610

Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val Val His Thr Ile Phe Pro
625 630 635 640
Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr His Thr Ile Gly Tyr Gly
645 650 655
Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile Pro Asp Ile Asp Tyr Ser
660 665 670
Tyr Thr

<210> 60
<211> 674
<212> PRT
<213> Homo sapiens

<400> 60
Met Val Val Ala His Pro Thr Ala Thr Ala Thr Thr Thr Pro Thr Ala
1 5 10 15
Thr Val Thr Ala Thr Val Val Met Thr Thr Ala Thr Met Asp Leu Arg
20 25 30
Asp Trp Leu Phe Leu Cys Tyr Gly Leu Ile Ala Phe Leu Thr Glu Val
35 40 45
Ile Asp Ser Thr Thr Cys Pro Ser Val Cys Arg Cys Asp Asn Gly Phe
50 55 60
Ile Tyr Cys Asn Asp Arg Gly Leu Thr Ser Ile Pro Ala Asp Ile Pro
65 70 75 80
Asp Asp Ala Thr Thr Leu Tyr Leu Gln Asn Asn Gln Ile Asn Asn Ala
85 90 95
Gly Ile Pro Gln Asp Leu Lys Thr Lys Val Asn Val Gln Val Ile Tyr
100 105 110
Leu Tyr Glu Asn Asp Leu Asp Glu Phe Pro Ile Asn Leu Pro Arg Ser
115 120 125
Leu Arg Glu Leu His Leu Gln Asp Asn Asn Val Arg Thr Ile Ala Arg
130 135 140
Asp Ser Leu Ala Arg Ile Pro Leu Leu Glu Lys Leu His Leu Asp Asp
145 150 155 160
Asn Ser Val Ser Thr Val Ser Ile Glu Glu Asp Ala Phe Ala Asp Ser
165 170 175
Lys Gln Leu Lys Leu Leu Phe Leu Ser Arg Asn His Leu Ser Ser Ile
180 185 190
Pro Ser Gly Leu Pro His Thr Leu Glu Glu Leu Arg Leu Asp Asp Asn
195 200 205
Arg Ile Ser Thr Ile Pro Leu His Ala Phe Lys Gly Leu Asn Ser Leu
210 215 220

CURA 85 CON Sequence Listing 08_30_2004

Arg Arg Leu Val Leu Asp Gly Asn Leu Leu Ala Asn Gln Arg Ile Ala
 225 230 235 240
 Asp Asp Thr Phe Ser Arg Leu Gln Asn Leu Thr Glu Leu Ser Leu Val
 245 250 255
 Arg Asn Ser Leu Ala Ala Pro Pro Leu Asn Leu Pro Ser Ala His Leu
 260 265 270
 Gln Lys Leu Tyr Leu Gln Asp Asn Ala Ile Ser His Ile Pro Tyr Asn
 275 280 285
 Thr Leu Ala Lys Met Arg Glu Leu Glu Arg Leu Asp Leu Ser Asn Asn
 290 295 300
 Asn Leu Thr Thr Leu Pro Arg Gly Leu Phe Asp Asp Leu Gly Asn Leu
 305 310 315 320
 Ala Gln Leu Leu Leu Arg Asn Asn Pro Trp Phe Cys Gly Cys Asn Leu
 325 330 335
 Met Trp Leu Arg Asp Trp Val Lys Ala Arg Ala Ala Val Val Asn Val
 340 345 350
 Arg Gly Leu Met Cys Gln Gly Pro Glu Lys Val Arg Gly Met Ala Ile
 355 360 365
 Lys Asp Ile Thr Ser Glu Met Asp Glu Cys Phe Glu Thr Gly Pro Gln
 370 375 380
 Gly Gly Val Ala Asn Ala Ala Ala Lys Thr Thr Ala Ser Asn His Ala
 385 390 395 400
 Ser Ala Thr Thr Pro Gln Gly Ser Leu Phe Thr Leu Lys Ala Lys Arg
 405 410 415
 Pro Gly Leu Arg Leu Pro Asp Ser Asn Ile Asp Tyr Pro Met Ala Thr
 420 425 430
 Gly Asp Gly Ala Lys Thr Leu Ala Ile His Val Lys Ala Leu Thr Ala
 435 440 445
 Asp Ser Ile Arg Ile Thr Trp Lys Ala Thr Leu Pro Ala Ser Ser Phe
 450 455 460
 Arg Leu Ser Trp Leu Arg Leu Gly His Ser Pro Ala Val Gly Ser Ile
 465 470 475 480
 Thr Glu Thr Leu Val Gln Gly Asp Lys Thr Glu Tyr Leu Leu Thr Ala
 485 490 495
 Leu Glu Pro Lys Ser Thr Tyr Ile Ile Cys Met Val Thr Met Glu Thr
 500 505 510
 Ser Asn Ala Tyr Val Ala Asp Glu Thr Pro Val Cys Ala Lys Ala Glu
 515 520 525
 Thr Ala Asp Ser Tyr Gly Pro Thr Thr Thr Leu Asn Gln Glu Gln Asn
 530 535 540
 Ala Gly Pro Met Ala Ser Leu Pro Leu Ala Gly Ile Ile Gly Gly Ala
 545 550 555 560

CURA 85 CON Sequence Listing 08_30_2004

Val Ala Leu Val Phe Leu Phe Leu Val Leu Gly Ala Ile Cys Trp Tyr
565 570 575
Val His Gln Ala Gly Glu Leu Leu Thr Arg Glu Arg Ala Tyr Asn Arg
580 585 590
Gly Ser Arg Glu Lys Asp Asp Tyr Met Glu Ser Gly Thr Lys Lys Asp
595 600 605
Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln Met Leu Pro Ile
610 615 620
Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val Val His Thr Ile Phe Pro
625 630 635 640
Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr His Thr Ile Gly Tyr Gly
645 650 655
Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile Pro Asp Ile Asp Tyr Ser
660 665 670
Tyr Thr

<210> 61
<211> 246
<212> PRT
<213> Homo sapiens

<400> 61
Pro Met Ala Thr Gly Asp Gly Ala Lys Thr Leu Ala Ile His Val Lys
1 5 10 15
Ala Leu Thr Ala Asp Ser Ile Arg Ile Thr Trp Lys Ala Thr Leu Pro
20 25 30
Ala Ser Ser Phe Arg Leu Ser Trp Leu Arg Leu Gly His Ser Pro Ala
35 40 45
Val Gly Ser Ile Thr Glu Thr Leu Val Gln Gly Asp Lys Thr Glu Tyr
50 55 60
Leu Leu Thr Ala Leu Glu Pro Lys Ser Thr Tyr Ile Ile Cys Met Val
65 70 75 80
Thr Met Glu Thr Ser Asn Ala Tyr Val Ala Asp Glu Thr Pro Val Cys
85 90 95
Ala Lys Ala Glu Thr Ala Asp Ser Tyr Gly Pro Thr Thr Thr Leu Asn
100 105 110
Gln Glu Gln Asn Ala Gly Pro Met Ala Ser Leu Pro Leu Ala Gly Ile
115 120 125
Ile Gly Gly Ala Val Ala Leu Val Phe Leu Phe Leu Val Leu Gly Ala
130 135 140
Ile Cys Trp Tyr Val His Gln Ala Gly Glu Leu Leu Thr Arg Glu Arg
145 150 155 160
Ala Tyr Asn Arg Gly Ser Arg Lys Lys Asp Asp Tyr Met Glu Ser Gly
165 170 175

CURA 85 CON Sequence Listing 08_30_2004

Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln
180 185 190
Met Leu Pro Ile Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val Val His
195 200 205
Thr Ile Phe Pro Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr His Thr
210 215 220
Ile Gly Tyr Gly Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile Pro Asp
225 230 235 240
Ile Asp Tyr Ser Tyr Thr
245

<210> 62
<211> 378
<212> PRT
<213> Homo sapiens

<400> 62
Ile Ser Asn Asn Gln Leu Arg Met Leu Thr Gln Gly Val Phe Asp Asn
1 5 10 15
Leu Ser Asn Leu Lys Gln Leu Thr Ala Arg Asn Asn Pro Trp Phe Cys
20 25 30
Asp Cys Ser Ile Lys Trp Val Thr Glu Trp Leu Lys Tyr Ile Pro Ser
35 40 45
Ser Leu Asn Val Arg Gly Phe Met Cys Gln Gly Pro Glu Gln Val Arg
50 55 60
Gly Met Ala Val Arg Glu Leu Asn Met Asn Leu Leu Ser Cys Pro Thr
65 70 75 80
Thr Thr Pro Gly Leu Pro Leu Phe Thr Pro Ala Pro Ser Thr Ala Ser
85 90 95
Pro Thr Thr Gln Pro Pro Thr Leu Ser Ile Pro Asn Pro Ser Arg Ser
100 105 110
Tyr Thr Pro Pro Thr Pro Thr Thr Ser Lys Leu Pro Thr Ile Pro Asp
115 120 125
Trp Asp Gly Arg Glu Arg Val Thr Pro Pro Ile Ser Glu Arg Ile Gln
130 135 140
Leu Ser Ile His Phe Val Asn Asp Thr Ser Ile Gln Val Ser Trp Leu
145 150 155 160
Ser Leu Phe Thr Val Met Ala Tyr Lys Leu Thr Trp Val Lys Met Gly
165 170 175
His Ser Leu Val Gly Gly Ile Val Gln Glu Arg Ile Val Ser Gly Glu
180 185 190
Lys Gln His Leu Ser Leu Val Asn Leu Glu Pro Arg Ser Thr Tyr Arg
195 200 205
Ile Cys Leu Val Pro Leu Asp Ala Phe Asn Tyr Arg Ala Val Glu Asp

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210

215

220

Thr Ile Cys Ser Glu Ala Thr Thr His Ala Ser Tyr Leu Asn Asn Gly
 225 230 235 240
 Ser Asn Thr Ala Ser Ser His Glu Gln Thr Thr Ser His Ser Met Gly
 245 250 255
 Ser Pro Phe Leu Leu Ala Gly Leu Ile Gly Gly Ala Val Ile Phe Val
 260 265 270
 Leu Val Val Leu Leu Ser Val Phe Cys Trp His Met His Lys Lys Gly
 275 280 285
 Arg Tyr Thr Ser Gln Lys Trp Lys Tyr Asn Arg Gly Arg Arg Lys Asp
 290 295 300
 Asp Tyr Cys Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu Glu Met
 305 310 315 320
 Thr Glu Thr Ser Phe Gln Ile Val Ser Leu Asn Asn Asp Gln Leu Leu
 325 330 335
 Lys Gly Asp Phe Arg Leu Gln Pro Ile Tyr Thr Pro Asn Gly Gly Ile
 340 345 350
 Asn Tyr Thr Asp Cys His Ile Pro Asn Asn Met Arg Tyr Cys Asn Ser
 355 360 365
 Ser Val Pro Asp Leu Glu His Cys His Thr
 370 375

<210> 63

<211> 338

<212> PRT

<213> Gallus gallus

<400> 63

Val His Ser Val Trp Thr Arg Thr Val Arg Gln Val Tyr Asn Glu Leu
 1 5 10 15
 Asp Pro Glu His Trp Ser His Tyr Thr Phe Glu Cys Pro Gln Glu Cys
 20 25 30
 Phe Cys Pro Pro Ser Phe Pro Asn Ala Leu Tyr Cys Asp Asn Lys Gly
 35 40 45
 Leu Lys Glu Ile Pro Ala Ile Pro Ala Arg Ile Trp Tyr Leu Tyr Leu
 50 55 60
 Gln Asn Asn Leu Ile Glu Thr Ile Ser Glu Lys Pro Phe Val Asn Ala
 65 70 75 80
 Thr His Leu Arg Trp Ile Asn Leu Asn Lys Asn Lys Ile Thr Asn Asn
 85 90 95
 Gly Ile Glu Ser Gly Val Leu Ser Lys Leu Lys Arg Leu Leu Tyr Leu
 100 105 110
 Phe Leu Glu Asp Asn Glu Leu Glu Glu Val Pro Ala Pro Leu Pro Val
 115 120 125

CURA 85 CON Sequence Listing 08_30_2004

Gly Leu Glu Gln Leu Arg Leu Ala Arg Asn Lys Ile Ser Arg Ile Pro
 130 135 140
 Glu Gly Val Phe Ser Asn Leu Glu Asn Leu Thr Met Leu Asp Leu His
 145 150 155 160
 Gln Asn Asn Leu Leu Asp Ser Ala Leu Gln Ser Asp Thr Phe Gln Gly
 165 170 175
 Leu Asn Ser Leu Met Gln Leu Asn Ile Ala Lys Asn Ser Leu Lys Lys
 180 185 190
 Met Pro Leu Ser Ile Pro Ala Asn Thr Leu Gln Leu Phe Leu Asp Asn
 195 200 205
 Asn Ser Ile Glu Val Ile Pro Glu Asn Tyr Phe Ser Ala Ile Pro Lys
 210 215 220
 Val Thr Phe Leu Arg Leu Asn Tyr Asn Lys Leu Ser Asp Asp Gly Ile
 225 230 235 240
 Pro Pro Asn Gly Phe Asn Val Ser Ser Ile Leu Asp Leu Gln Leu Ser
 245 250 255
 His Asn Gln Leu Thr Lys Ile Pro Pro Ile Asn Ala His Leu Glu His
 260 265 270
 Leu His Leu Asp His Asn Arg Ile Lys Ser Val Asn Gly Thr Gln Ile
 275 280 285
 Cys Pro Val Ser Ile Ala Val Ala Glu Asp Tyr Gly Leu Tyr Gly Asn
 290 295 300
 Ile Pro Arg Leu Arg Tyr Leu Arg Leu Asp Gly Asn Glu Ile Gln Pro
 305 310 315 320
 Pro Ile Pro Leu Asp Ile Met Ile Cys Phe Gln Leu Leu Gln Ala Val
 325 330 335
 Val Ile

<210> 64
 <211> 326
 <212> PRT
 <213> Bos taurus

<400> 64

Pro Tyr Glu Pro Tyr Pro Thr Gly Glu Glu Gly Pro Ala Tyr Ala Tyr
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 Gly Ser Pro Pro Gln Pro Glu Pro Arg Asp Cys Pro Gln Glu Cys Asp
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 Cys Pro Pro Asn Phe Pro Thr Ala Met Tyr Cys Asp Asn Arg Asn Leu
 35 40 45
 Lys Tyr Leu Pro Phe Val Pro Ser Arg Met Lys Tyr Val Tyr Phe Gln
 50 55 60
 Asn Asn Gln Ile Ser Ser Ile Gln Glu Gly Val Phe Asp Asn Ala Thr
 65 70 75 80

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Gly Leu Leu Trp Ile Ala Leu His Gly Asn Gln Ile Thr Ser Asp Lys
 85 90 95
 Val Gly Lys Lys Val Phe Ser Lys Leu Arg His Leu Glu Arg Leu Tyr
 100 105 110
 Leu Asp His Asn His Leu Thr Arg Ile Pro Ser Pro Leu Pro Arg Ser
 115 120 125
 Leu Arg Glu Leu His Leu Asp His Asn Gln Ile Ser Arg Val Pro Asn
 130 135 140
 Asn Ala Leu Glu Gly Leu Glu Asn Leu Thr Ala Leu Tyr Leu His His
 145 150 155 160
 Glu Ile Gln Glu Val Gly Ser Ser Met Lys Gly Leu Arg Ser Leu Ile
 165 170 175
 Leu Leu Asp Leu Ser Tyr Asn His Leu Arg Lys Val Pro Asp Gly Leu
 180 185 190
 Pro Ser Ala Leu Glu Gln Leu Tyr Leu Glu His Asn Asn Val Phe Ser
 195 200 205
 Val Pro Asp Ser Tyr Phe Arg Gly Ser Pro Lys Leu Leu Tyr Val Arg
 210 215 220
 Leu Ser His Asn Ser Leu Thr Asn Asn Gly Leu Ala Ser Asn Thr Phe
 225 230 235 240
 Asn Ser Ser Ser Leu Leu Glu Leu Asp Leu Ser Tyr Asn Gln Leu Gln
 245 250 255
 Lys Ile Pro Pro Val Ser Thr Asn Leu Glu Asn Leu Tyr Leu Gln Gly
 260 265 270
 Asn Arg Ile Asn Glu Phe Ser Ile Ser Ser Phe Cys Thr Val Val Asp
 275 280 285
 Val Met Asn Phe Ser Lys Leu Gln Val Gln Arg Leu Asp Gly Asn Glu
 290 295 300
 Ile Lys Arg Ser Ala Met Pro Ala Asp Ala Pro Leu Cys Leu Arg Leu
 305 310 315 320
 Ala Ser Leu Ile Glu Ile
 325